



**CTEH® Project #40442**  
**West Fertilizer Plant Explosion**  
**Summary of Air Monitoring Results**  
**May 4, 2013 10:00**

This data report discusses real-time air monitoring data collected between 5/3/2013 07:00 and 5/4/2013 7:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for VOCs, and ammonia (NH<sub>3</sub>) using remote-telemetry RAESystems® AreaRAEs.

Tables 1 (below) displays the data summary for AreaRAE instruments, hand-held instruments were not employed during this period. Site maps and charts are available as attachments.

**Table 1**  
**Stationary AreaRAE Monitoring Stations Data Logged**  
**05/03/2013 07:00 to 05/04/2013 07:00**

Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection
AR13	NH3	5731	0	NA	< 1 ppm
	VOC	5731	0	NA	< 0.1 ppm
AR14	NH3	5687	0	NA	< 1 ppm
	VOC	5687	0	NA	< 0.1 ppm
AR16 Mobile Down Wind Unit	NH3	5224	0	NA	< 1 ppm
	VOC	5224	68	0.2 ppm	0.5 ppm
AR17	NH3	5721	0	NA	< 1 ppm
	VOC	5721	0	NA	< 0.1 ppm
AR18	NH3	5687	0	NA	< 1 ppm
	VOC	5687	0	NA	< 0.1 ppm

<sup>1</sup>The data in this table may include electronic drift. Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift. Additionally, the data has not undergone complete QAQC as of this time.



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AND ENVIRONMENTAL HEALTH, LLC

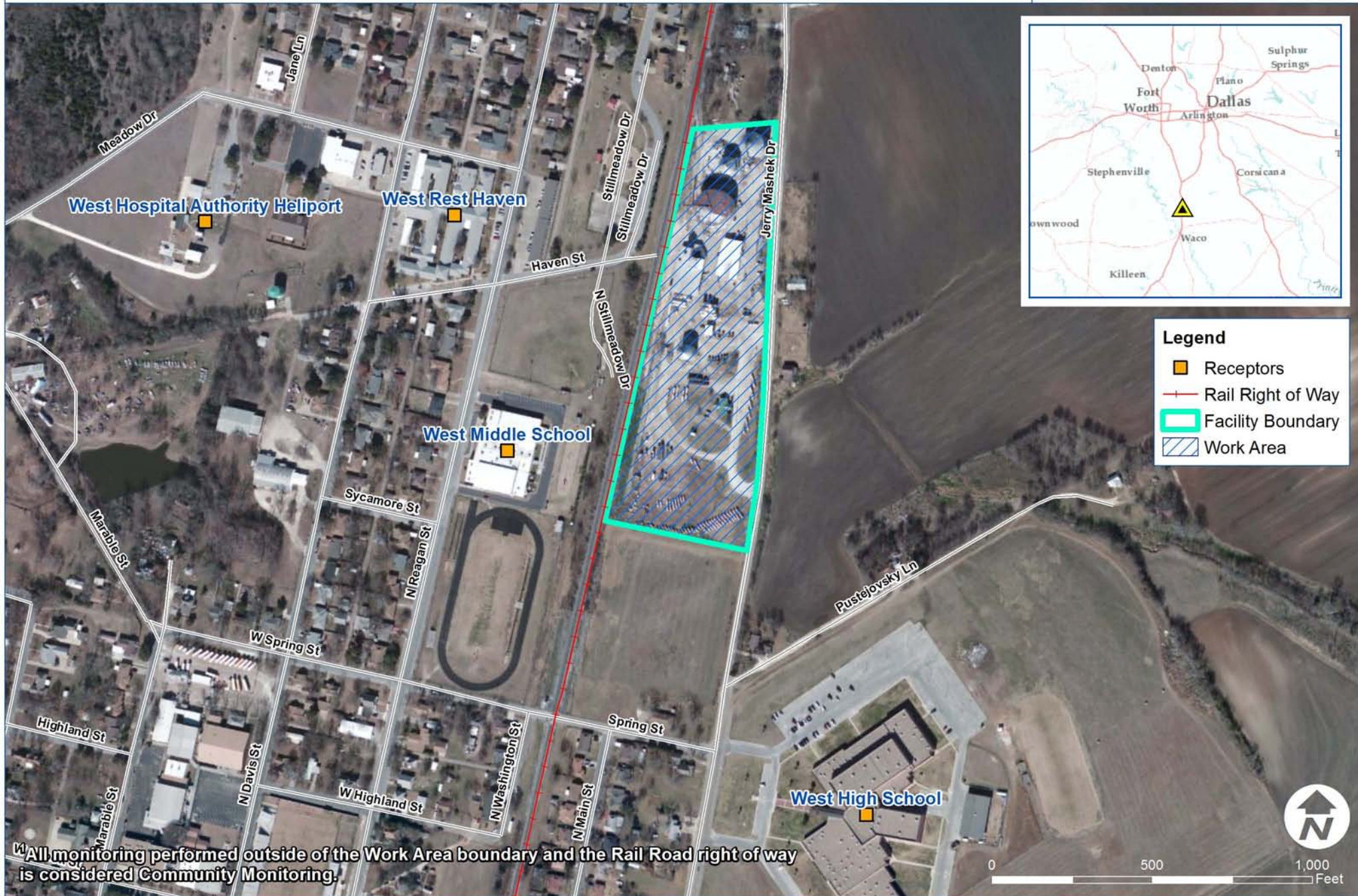
# Appendix





# Air Monitoring Zone Classifications<sup>1</sup> May 04, 2013

Project: 40442  
Client: OMI  
City: West, TX  
County: McLennan



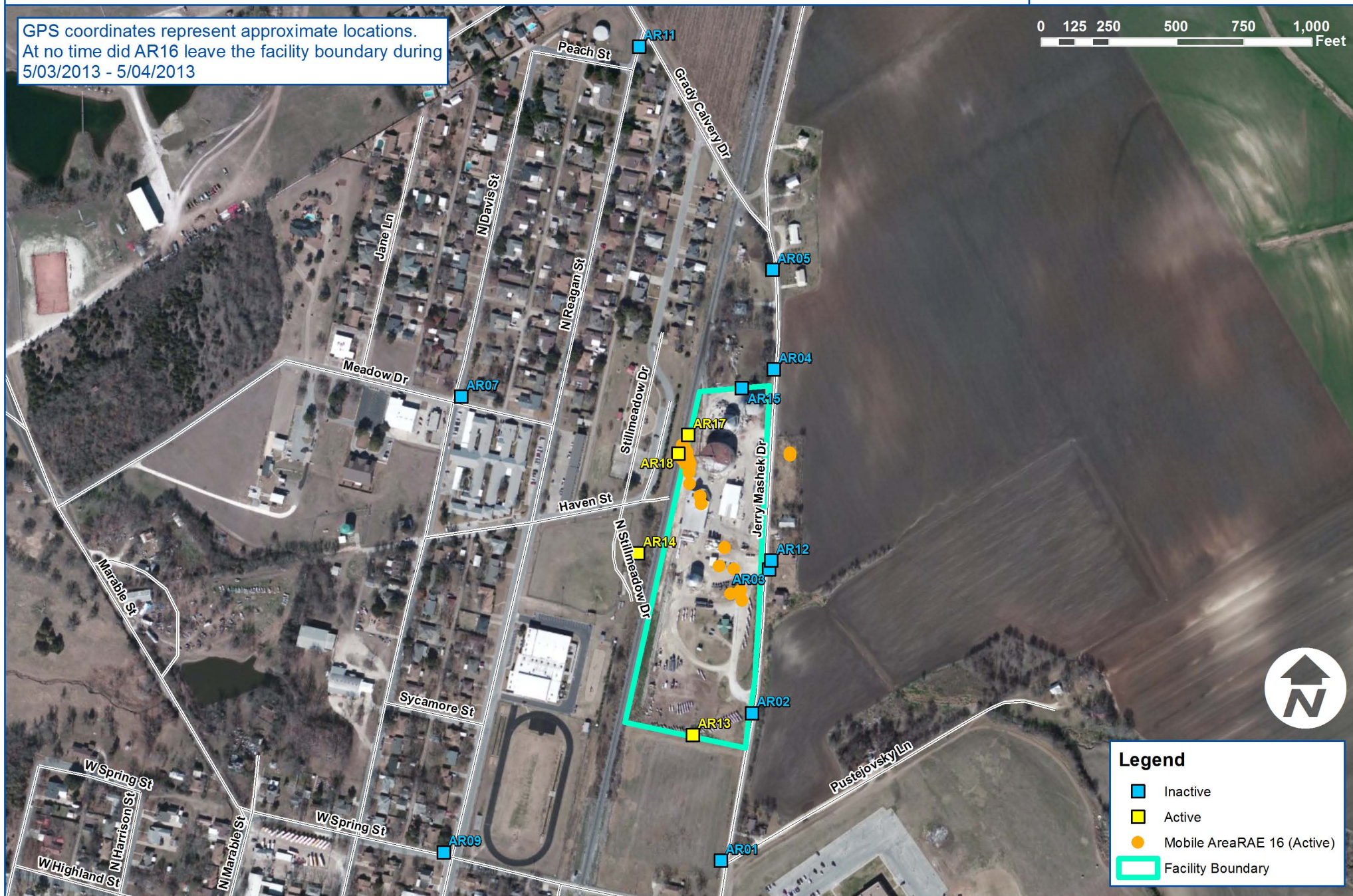


## AreaRAE Monitoring Station Locations 5/04/2013

Project: 40442  
Client: OMI  
City: West, TX  
County: McLennan

GPS coordinates represent approximate locations.  
At no time did AR16 leave the facility boundary during  
5/03/2013 - 5/04/2013

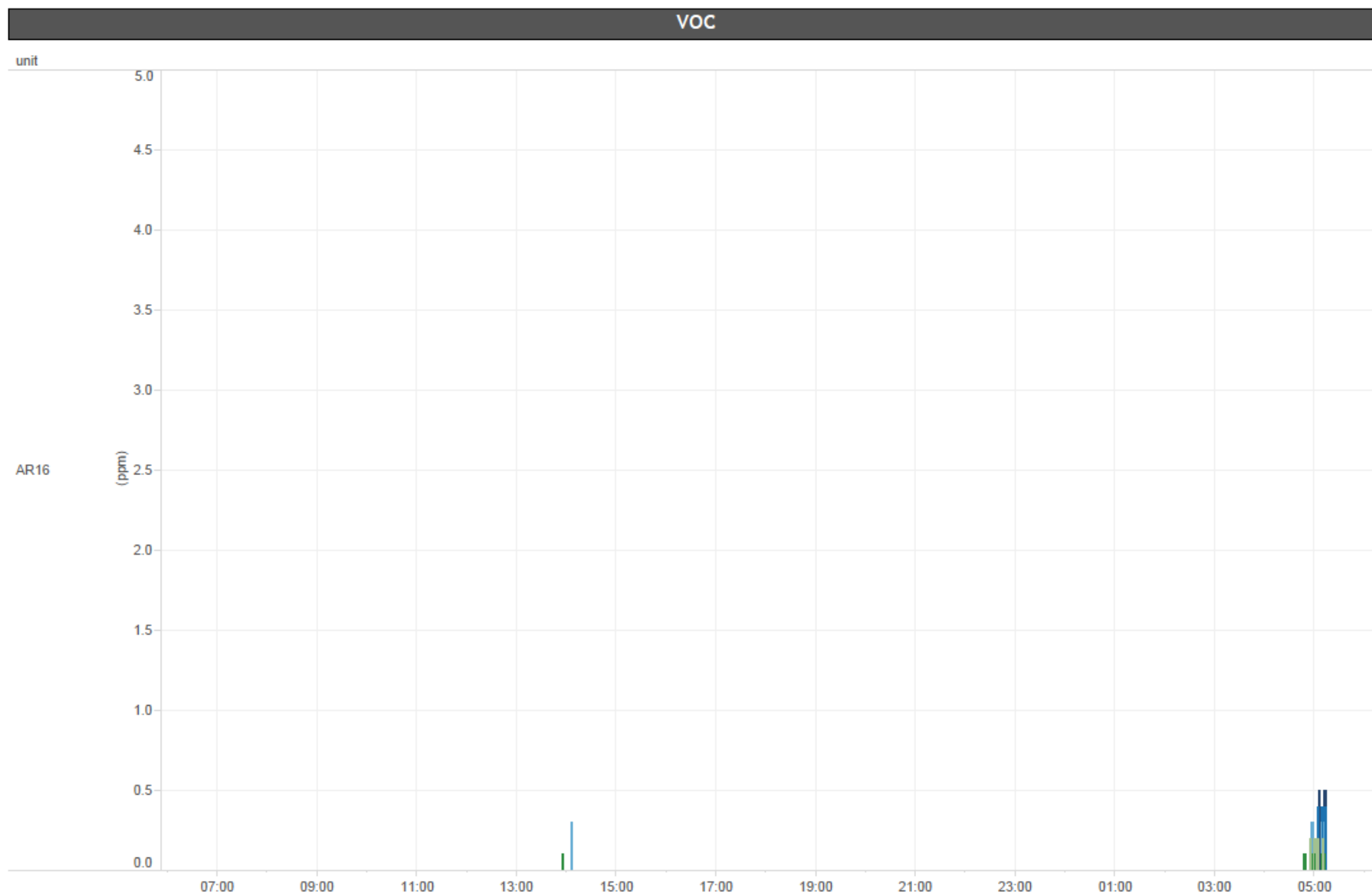
0 125 250 500 750 1,000 Feet



### Legend

- Inactive
- Active
- Mobile AreaRAE 16 (Active)
- Facility Boundary

**AreaRAE Detections**  
**5/03/2013 07:00 to 5/04/2013 07:00**

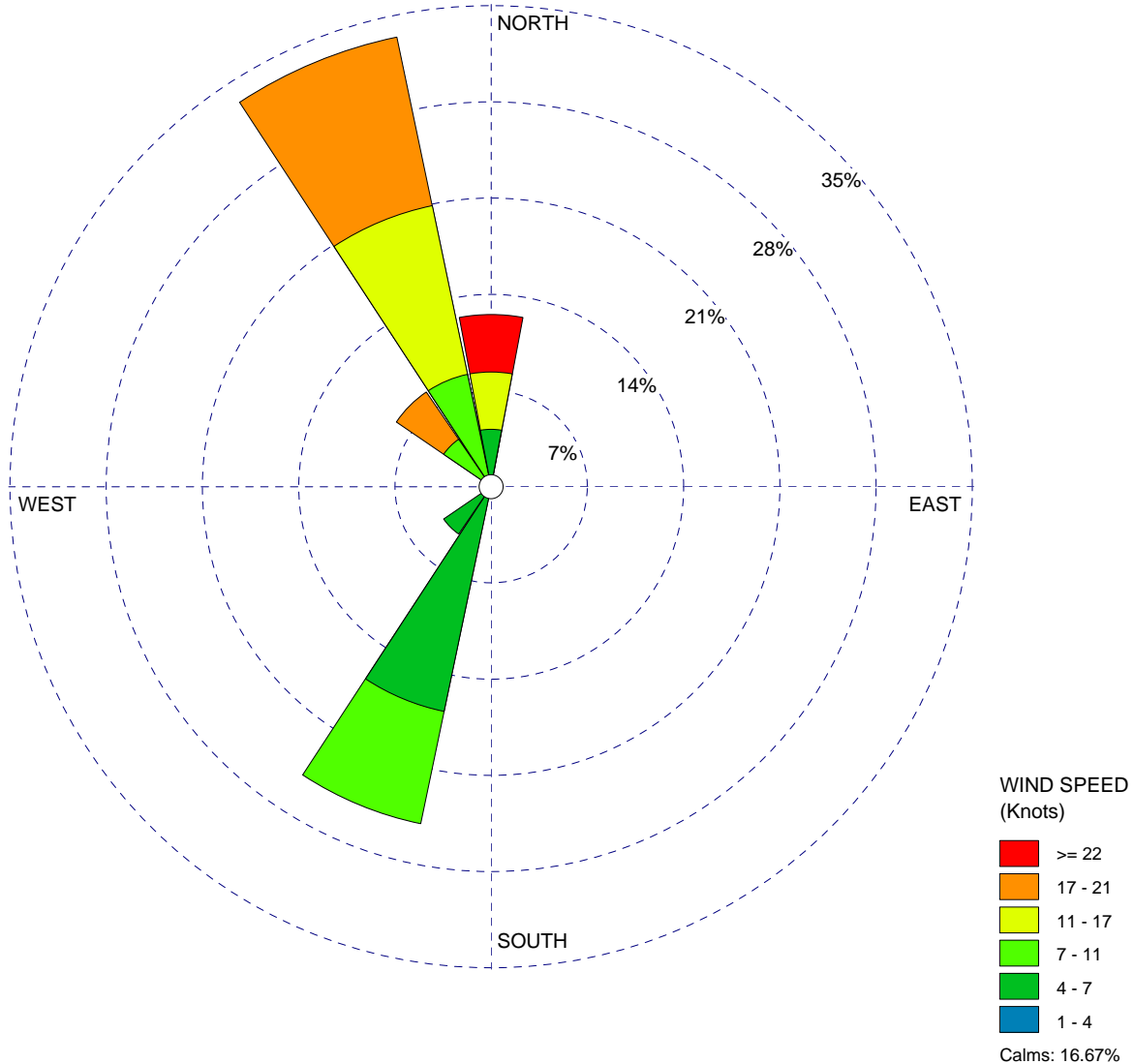


WIND ROSE PLOT:

**Wind Speed and Direction 5/3/2013 07:00 to 5/4/2013 07:00**  
**West, TX**

DISPLAY:

**Wind Speed**  
**Direction (blowing from)**



COMMENTS:

Met Station: KACT Waco, TX

COMPANY NAME:

**CTEH**

MODELER:

**Lloyd Long**

CALM WINDS:

**16.67%**

AVG. WIND SPEED:

**9.71 Knots**



PROJECT NO.:

**40442-OMI**